

In the Claims

1. (currently amended) A method for the manufacture of a partially crystalline

~~polycondensate, especially a polyester or polyamide, comprising the following steps of :~~

~~a) Manufacture continuously manufacturing of a polycondensate prepolymer melt;~~

~~b) Formation of granulates and solidification of the polycondensate prepolymer melt, by means of a granulation device, wherein the granulates is cut upon exit from a nozzle of the granulation device passing the melt through a nozzle and cutting the melt upon exiting from the nozzle to form solidified granulates of a size smaller than 2 mm;~~

~~c) Raising of the degree of crystallization of treating the prepolymer granulates at a temperature sufficient to achieve a predetermined degree of crystallization; and~~

~~d) Raising the molecular weight of subjecting the granulates by means of to a solid phase polycondensation to increase the molecular weight of the granulates, characterized in that in the step b), granulates with a mean diameter of less than 2 mm are formed and~~

~~maintaining the average temperature of the granulates in degrees Centigrade in transition from step b) to step c) above a value corresponding to 1/4 of the melting temperature $T_{m_{pp}}$ in degrees Centigrade.~~

2. (currently amended) The method according to claim 1, characterized in that in the step b), granulates with a mean diameter of ~~0.4-1.7 mm~~ 0.4 to 1.7 mm, especially ~~0.6-1.2 mm~~ are formed.
3. (currently amended) The method according to claim 1 ~~one of the preceding~~ ~~claims~~, characterized in that, the polycondensate prepolymer melt is pressed through a nozzle plate with a multiplicity of nozzle holes, ~~which preferably are~~ arranged on at least one annular pathway.
4. (currently amended) The method according to claim 1 ~~one of the preceding~~ ~~claims~~, characterized in that, the cutting in the ~~granulation~~ step b) is carried out with a circumferential knife.
5. (currently amended) The method according to claim 1 ~~one of the preceding~~ ~~claims~~, characterized in that, the cutting in the ~~granulation~~ step b) is carried out with a ~~fluid jet~~, especially with a liquid jet.
6. (currently amended) The method according to claim 1 ~~one of the preceding~~ ~~claims~~, characterized in that the polycondensate prepolymer melt is selected from the group consisting of polyester involves a polyethyleneterephthalate, a polybutyleneterephthalate, a polyethylenenaphthalate or one of their copolymers.
7. (currently amended) The method according to claim 1 ~~one of the preceding~~ ~~claims~~, characterized in that the polyester polycondensate prepolymer melt ~~involves is selected from the group consisting of a polyester melt,~~ especially the melt of a polyethyleneterephthalate melt or one of its and a

copolymer copolymers thereof with a degree of polymerization consistent with an IV value of 0.18 to 0.45 dl/g.

8. (currently amended) The method according to claim 1 ~~one of the preceding claims~~, characterized in that the prepolymer granulates upon entry into the ~~crystallization~~ step c) have a crystallinity of less than 10%.

9. (currently amended) The method according to claim 1 ~~one of the preceding claims~~, characterized in that the ~~crystallization~~ step c) is carried out in one of a fluid bed or and a fluidized bed reactor with the action of a fluidizing gas.

10. (canceled)

11. (currently amended) The method according to claim 1 ~~one of the preceding claims~~, characterized in that in the ~~granulation~~ step b) a liquid is used for the cutting the melt, which is mostly and is separated from the prepolymer granulates, before they are granulates prior to the granulates being fed to the crystallization step c).

12. (currently amended) The method according to claim 1 wherein a water jet is used to cut the melt upon exiting from the nozzle to form the solidified granulates. ~~one of the preceding claims, characterized in that water is used as liquid.~~

13. (currently amended) The method according to claim 1 ~~one of the preceding claims~~, characterized in that the polycondensate melt involves a copolymer of polyethyleneterephthalate, wherein a ~~the~~ dicarboxylic acid

component comprises more than 94 mol % or less than 84 mol % ethyleneglycol.

14. (currently amended) The method according to claim 1 ~~one of the preceding~~ ~~claims,~~ characterized in that the polycondensate melt ~~is involves~~ a copolymer of polyethyleneterephthalate, wherein a ~~the~~ diol component comprises more than 98 mol % ethyleneglycol.

15. (currently amended) The method according to claim 1 ~~one of the preceding~~ ~~claims,~~ characterized in that the polycondensate melt ~~is involves~~ a copolymer of polyethyleneterephthalate, wherein a ~~the~~ dicarboxylic acid component comprises 98 mol % to 99 mol % terephthalic acid.

16. (currently amended) The method according to claim 1 ~~one of the preceding~~ ~~claims,~~ characterized in that ~~simultaneously with the crystallization step e)~~ ~~heat up to a suitable temperature for solid phase polycondensation takes place.~~ step b) and step c) occur simultaneously.

17. (currently amended) The method according to claim 1 ~~one of the preceding~~ ~~claims,~~ characterized in that ~~porous granulates are produced, into which preferably in step a) and/or step b),~~ a foaming agent is added to the polymer melt to obtain porous granulates in step b).

18. (new) The method according to claim 1, characterized in that in granulates with a mean diameter of 0.6-1.2 mm are formed in step b).

19. (new) A method for the manufacture of a partially crystalline polycondensate comprising the steps of

continuously manufacturing a polycondensate prepolymer melt;

granulating the melt to form individual solidified granulates of a size smaller than 2 mm;

treating the granulates at a temperature sufficient to achieve a predetermined degree of crystallization and maintaining the average temperature of the granulates in degrees Centigrade above a value corresponding to $1/4$ of the melting temperature $T_{m,pp}$ in degrees Centigrade; and

subjecting the granulates to a solid phase polycondensation to increase the molecular weight of the granulates.